

10/ 572,341

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 AUG 10 Time limit for inactive STN sessions doubles to 40
minutes
NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source
(CS) field
NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5 AUG 24 CA/CAPLUS enhanced with legal status information for
U.S. patents
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in
CAS REGISTRY
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
thesaurus
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and
Taiwanese Content Expanded
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human
translated claims for Chinese Applications and
Utility Models
NEWS 10 OCT 27 Free display of legal status information in CA/CAPLUS,
USPATFULL, and USPAT2 in the month of November.

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:11:44 ON 17 NOV 2009

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 14:11:57 ON 17 NOV 2009
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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 15 NOV 2009 HIGHEST RN 1192409-16-7
 DICTIONARY FILE UPDATES: 15 NOV 2009 HIGHEST RN 1192409-16-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

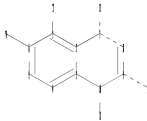
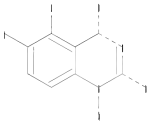
Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10572341a.str



chain nodes :

11 12

ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14

ring/chain nodes :

15

chain bonds :

7-11 9-15 10-12

ring bonds :

1-2 1-6 1-13 2-3 2-7 3-4 3-10 4-5 5-6 6-14 7-8 8-9 9-10

exact/norm bonds :

1-13 2-7 3-10 6-14 7-8 7-11 8-9 9-10 9-15 10-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:CLASS 12:Atom 13:Atom 14:Atom 15:CLASS

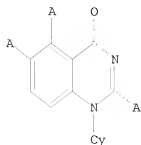
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L1 STRUCTURE UPLOADED

=> d L1

L1 HAS NO ANSWERS

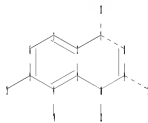
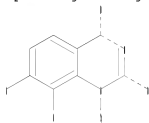
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\Stnexp\Queries\10572341b.str



chain nodes :

11 12

ring nodes :

1 2 3 4 5 6 7 8 9 10 14 15

ring/chain nodes :

13

chain bonds :

7-11 9-13 10-12

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-10 4-5 4-14 5-6 5-15 7-8 8-9 9-10

exact/norm bonds :

2-7 3-10 4-14 5-15 7-8 7-11 8-9 9-10 9-13 10-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

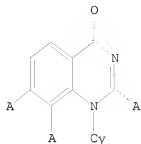
11:CLASS 12:Atom 13:CLASS 14:Atom 15:Atom

L2 STRUCTURE UPLOADED

=> d L2

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L2 HAS NO ANSWERS
L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11 full
FULL SEARCH INITIATED 14:13:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1882193 TO ITERATE

100.0% PROCESSED 1882193 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.16

L3 6 SEA SSS FUL L1

=> s 12 full
FULL SEARCH INITIATED 14:14:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1882193 TO ITERATE

100.0% PROCESSED 1882193 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.13

L4 0 SEA SSS FUL L2

	SINCE FILE	TOTAL
	ENTRY	SESSION
=> file caplus		
COST IN U.S. DOLLARS		
FULL ESTIMATED COST	373.20	373.42

FILE 'CAPLUS' ENTERED AT 14:14:55 ON 17 NOV 2009
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FILE COVERS 1907 - 17 Nov 2009 VOL 151 ISS 21
FILE LAST UPDATED: 16 Nov 2009 (20091116/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

During November, try the new LSUS format of legal status information in the CA/CAPLUS family databases for free! Complete details on the number of free displays and other databases participating in this offer appear in NEWS 10.

=> d his

(FILE 'HOME' ENTERED AT 14:11:44 ON 17 NOV 2009)

FILE 'REGISTRY' ENTERED AT 14:11:57 ON 17 NOV 2009

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 6 S L1 FULL
L4 0 S L2 FULL

FILE 'CAPLUS' ENTERED AT 14:14:55 ON 17 NOV 2009

=> s l3

L5 1 L3

=> d L5 ibib abs hitstr

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:572704 CAPLUS

DOCUMENT NUMBER: 129:312244

ORIGINAL REFERENCE NO.: 129:63632h,63633a

TITLE: Benzoquinazoline Derivatives as Substitutes for
Thymine in Nucleic Acid Complexes. Use of Fluorescence
Emission of Benzo[g]quinazoline-2,4-(1H,3H)-dione in
Probing Duplex and Triplex Formation
Godde, Frederic; Toulme, Jean-Jacques; Moreau, Serge
CORPORATE SOURCE: IFR Pathologies Infectieuses, Universite Victor
Segalen, Bordeaux, 33076, Fr.
SOURCE: Biochemistry (1998), 37(39), 13765-13775
CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:312244

AB Triple helix formation obeys structural features that do not allow accommodation of every double-stranded sequence; it requires the occurrence of homopurine stretches. A further constraint comes from the weak energy of interaction between the third strand and the double-stranded target. In an attempt to design bases leading to increased stability of triplexes, we explored the ability of modified bases with an extended aromatic domain to increase third strand binding through stacking interactions. We report here the use of benzo[g]- and benzo[f]quinazoline-2,4-dione-(1H,3H)-dione as substitutes for thymine in

the canonical TA**T* triplet. The synthesis and characterization of the β nucleoside derivs. of benzoquinazolines are described. Triplex-forming oligonucleotides containing these modified bases have been prepared, and their ability to form triplexes has been evaluated by UV absorption-monitored thermal denaturation measurements. Benzo[g]quinazoline and benzo[f]quinazoline formed triple-stranded structures with slightly decreased stabilities. In addition, benzo[g]quinazoline revealed strong fluorescence emission properties which can be used to monitor selectively the formation of triple-helical structures. Annealing of benzo[g]quinazoline to complementary strands did not produce any fluorescence modification. But when it was introduced into the Hoogsteen strand of PyPu*Py complexes, the fluorescence intensity was reduced and the emission maximum was shifted to short wavelengths.

IT 214492-91-8P

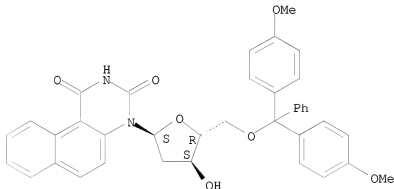
RL: BYP (Byproduct); PREP (Preparation)

(preparation of benzoquinazoline derivs. as substitutes for thymine in nucleic acid complexes for probing duplex and triplex formation)

RN 214492-91-8 CAPLUS

CN Benzo[f]quinazoline-1,3(2H,4H)-dione,
4-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy- α -D-erythro-pentofuranosyl]- (CA INDEX NAME)

Absolute stereochemistry.

IT 214492-85-0P 214492-87-2P 214492-89-4P
214492-95-2P

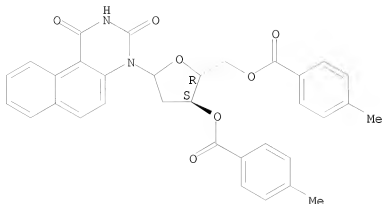
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzoquinazoline derivs. as substitutes for thymine in nucleic acid complexes for probing duplex and triplex formation)

RN 214492-85-0 CAPLUS

CN Benzo[f]quinazoline-1,3(2H,4H)-dione,
4-[2-deoxy-3,5-bis-O-(4-methylbenzoyl)-D-erythro-pentofuranosyl]- (CA INDEX NAME)

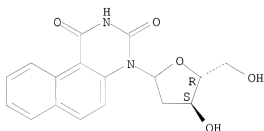
Absolute stereochemistry.



RN 214492-87-2 CAPLUS

CN Benzo[f]quinazoline-1,3(2H,4H)-dione,
4-(2-deoxy-2-erythro-pentofuranosyl)- (CA INDEX NAME)

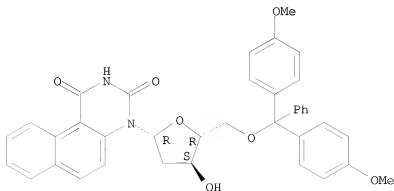
Absolute stereochemistry.



RN 214492-89-4 CAPLUS

CN Benzo[f]quinazoline-1,3(2H,4H)-dione,
4-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-β-D-erythro-
pentofuranosyl]- (CA INDEX NAME)

Absolute stereochemistry.



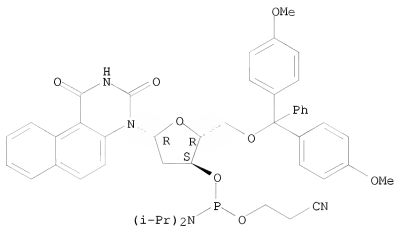
RN 214492-95-2 CAPLUS

CN Benzo[f]quinazoline-1,3(2H,4H)-dione,
4-[5-O-[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-β-D-erythro-pentofuranosyl]- (CA

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INDEX NAME)

Absolute stereochemistry.



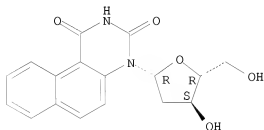
IT 214492-93-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of benzoquinazoline derivs. as substitutes for thymine in
nucleic acid complexes for probing duplex and triplex formation)

RN 214492-93-0 CAPLUS

CN Benzo[f]quinazoline-1,3(2H,4H)-dione,
4-(2-deoxy-β-D-erythro-pentofuranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 38 THERE ARE 38 CAPLUS RECORDS THAT CITE THIS
RECORD (39 CITINGS)
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:11:44 ON 17 NOV 2009)

FILE 'REGISTRY' ENTERED AT 14:11:57 ON 17 NOV 2009

L1 STRUCTURE UPLOADED

L2 STRUCTURE UPLOADED

L3 6 S L1 FULL

L4 0 S L2 FULL

FILE 'CAPLUS' ENTERED AT 14:14:55 ON 17 NOV 2009

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L5 1 S L3

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

XXXXXXXXXXXXXXXXXX

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.82	-0.82

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STN INTERNATIONAL LOGOFF AT 14:15:26 ON 17 NOV 2009